

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Drafters \(17-3012\)](#)

Associated Occupation: [Electrical and Electronic Engineering Technicians \(17-3023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	15.8	11.1	<< Extensive education and/or training may be required
Engineering and Technology	5.7	12.4	12.7	0 Current knowledge level may be sufficient
Mechanical	6.8	11.6	8.6	<< Extensive education and/or training may be required
Design	5.2	10.2	16.9	>> Current knowledge level is likely more than sufficient
Telecommunications	3.9	8.4	6.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 63

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	8.8	3.5	<< Extensive development of skills in this area may be required
Troubleshooting	4.5	8.8	1.6	<< Extensive development of skills in this area may be required
Repairing	3.4	8.0	1.0	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	7.9	1.0	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	7.0	2.1	<< Extensive development of skills in this area may be required

Technology Design	2.6	4.9	2.6	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.2	13.6	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	12.0	9.9	<	Some improvement in abilities may be required
Written Comprehension	11.0	12.0	13.1	0	Current ability level may be sufficient
Near Vision	11.1	11.6	12.2	0	Current ability level may be sufficient
Oral Expression	12.4	11.6	13.7	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	11.1	10.5	0	Current ability level may be sufficient
Information Ordering	9.9	11.0	10.7	0	Current ability level may be sufficient
Written Expression	9.8	10.7	12.1	>	Current ability level is likely sufficient
Finger Dexterity	7.6	9.9	7.2	<<	Extensive improvement in abilities may be required
Visualization	7.5	9.8	9.9	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.6	6.6	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Work Activities	Exclusivity of Activity
Analyze technical data, designs, or preliminary specifications	47
Communicate technical information	4
Confer with engineering, technical or manufacturing personnel	25
Confer with vendors	77
Develop plans for programs or projects	31
Draw prototypes, plans, or maps to scale	57
Examine engineering documents for completeness or accuracy	62
Follow manufacturing methods or techniques	73
Inspect manufactured products or materials	82
Prepare technical reports or related documentation	22

Read blueprints	10
Read schematics	34
Read technical drawings	7
Resolve engineering or science problems	46
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use drafting or mechanical drawing techniques	50
Use knowledge of metric system	39

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 43

Focus Occupation: Electrical and Electronics Drafters (17-3012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.